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[NL/US]; P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).

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(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; c/o Halajian, Dicran, P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).

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(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

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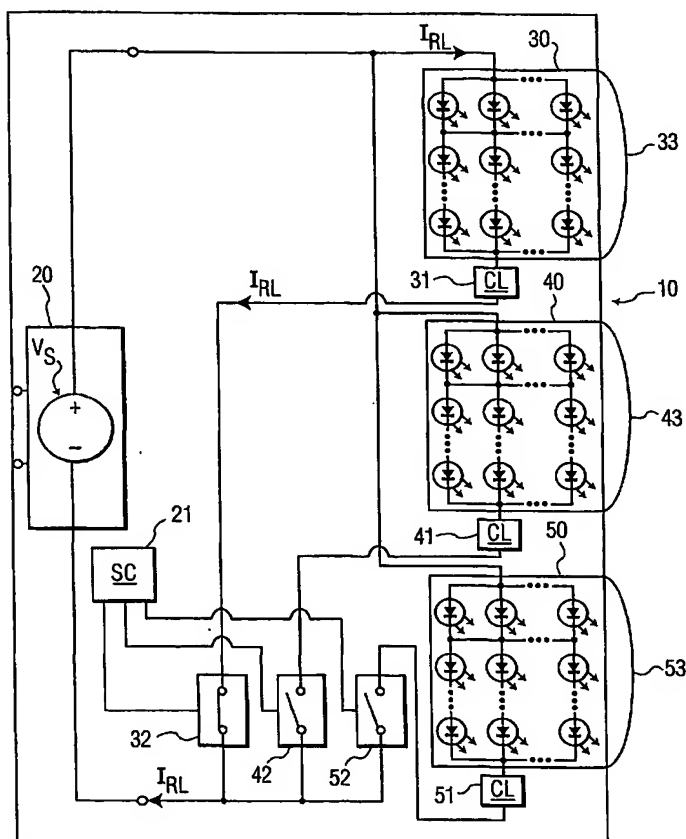
(72) Inventor; and

(75) Inventor/Applicant (for US only): **CLAUBERG, Bernd**

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(54) Title: **SINGLE LED DRIVER FOR A TRAFFIC LIGHT**



(57) Abstract: One form of a traffic light (10,11) employs one or more LED circuits connected to a voltage source ( $V_s$ ). Each LED circuit includes a series connection of a LED array (30), a current limiter (31) and an electronic switch (32). Each current limiter (31) controls a flow of LED current ( $I_{RL}$ ) through an associated LED array (30) whenever a switch controller (21) closes the associated electronic switch (32). Another form of a traffic light (60,61) employs one or more LED circuits connected to a current source ( $I_s$ ). Each LED circuit includes a parallel connection of LED array (80) and an electronic switch (81). A LED current ( $I_{RL}$ ) flows through an LED array (80) whenever a switch controller (71) opens the associated electronic switch (81).



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